

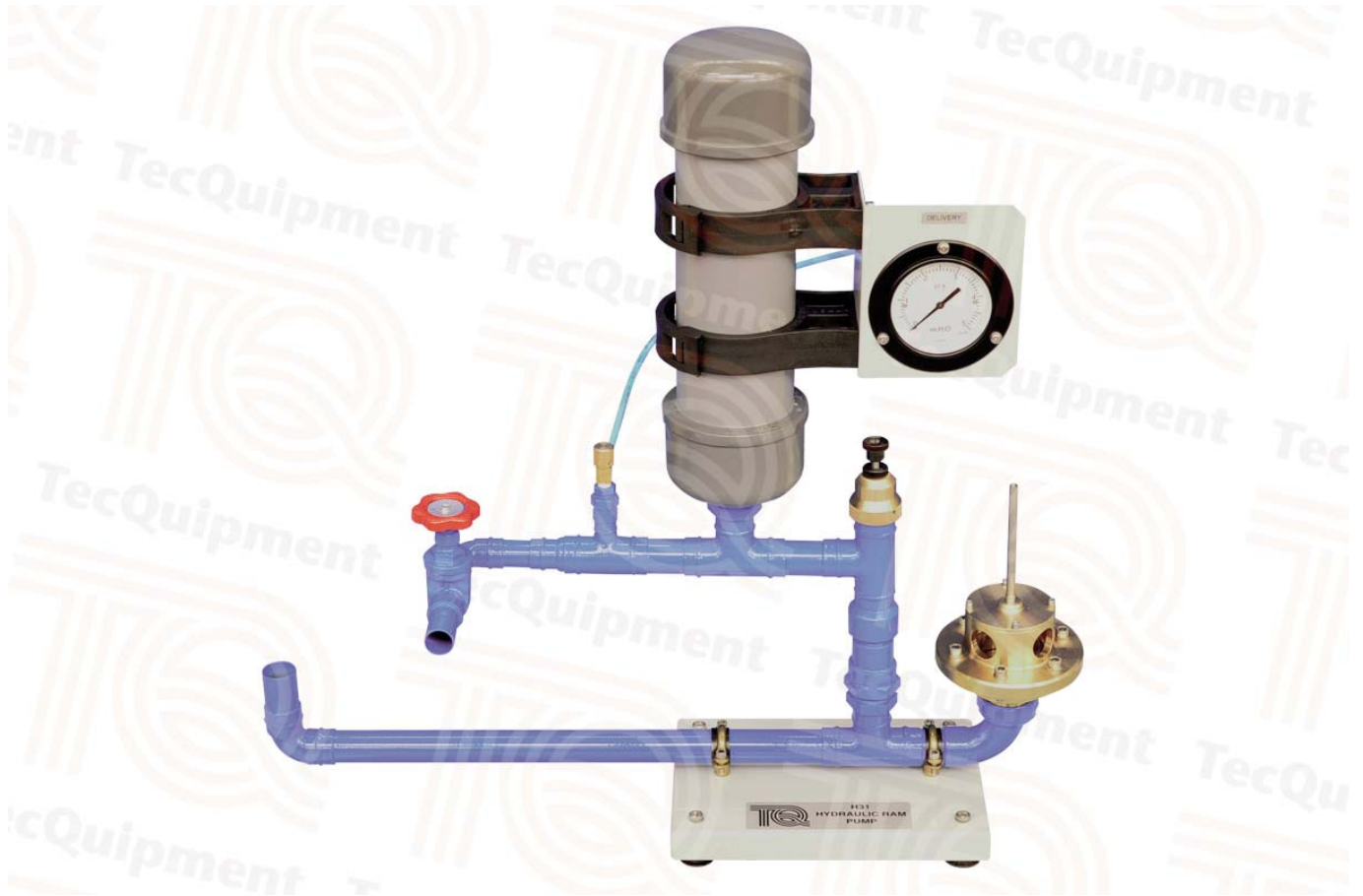


Fluid Mechanics

H31

Hydraulic Ram Pump

Shows the use of water hammer to create a pumping action



- Uses water hammer effect to pump water
- Works with TecQuipment's Volumetric Hydraulic Bench for easy installation
- Includes air vessel to reduce hydraulic shock
- Ideal for demonstrations to small groups of students
- Includes header tank and all necessary pipework

H31

Hydraulic Ram Pump

Description

The Hydraulic Ram Pump uses the water hammer effect. The momentum of a long column of moving water in a pipe causes the water hammer.

The ram pump is not a normal mechanically operated pump. A column of water in the supply (drive) pipe, moving at low velocity, is similar to a plunger. The energy in the plunger forces water from the supply into a delivery pipe.

The Hydraulic Ram Pump fits onto and works with TecEquipment's Volumetric Hydraulic Bench (H1D).

The apparatus has three main parts: the header tank, the pump and the interconnecting pipe work. The header tank fits on a wall, pillar or similar feature. The pump has:

- a supply pipe fitted with an inner and outer valve,
- an air vessel to reduce hydraulic shock, and
- a delivery section.

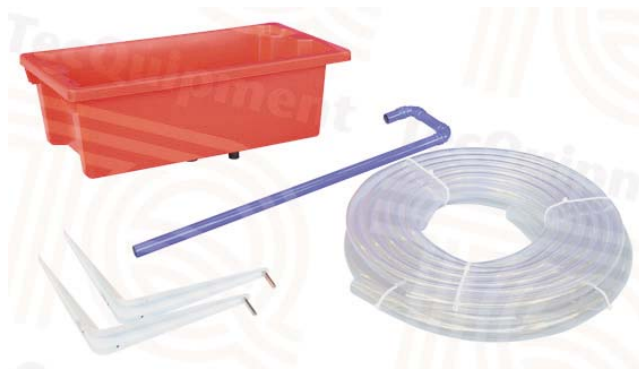
The outer valve has a weight platform, for loading with the weights provided. This changes the pump's cycle times.

Standard Features

- Supplied with a comprehensive user guide
- Five-year warranty
- Manufactured in accordance with the latest European Union directives

Essential Base Unit

- Volumetric Hydraulic Bench (H1D)



The parts included with the Hydraulic Ram Pump (H31)

Experiments

Demonstration of the water hammer effect to produce a pumping action.

Essential Services

Water supply:

From the Hydraulic Bench (H1D)

Operating Conditions

Operating environment:

Laboratory

Storage temperature range:

-25°C to +55°C (when packed for transport)

Operating temperature range:

+5°C to +40°C

Operating relative humidity range:

80% at temperatures < 31°C decreasing linearly to 50% at 40°C

Specifications

Packed dimensions and weight:

0.3 m³ and 20 kg



The pump fitted to the Volumetric Hydraulic Bench (H1D) – available separately

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